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(54) Title: COMPOSITIONS AND METHODS RELATING TO NOVEL COMPOUNDS AND TARGETS THEREOF

(57) Abstract: The present invention relates to novel chemical compounds, methods for their discovery, and their therapeutic use. In particular, the present invention provides benzodiazepine derivatives and methods of using benzodiazepine derivatives as therapeutic agents to treat a number of conditions associated with the faulty regulation of the processes of programmed cell death, autoimmunity, inflammation, and hyperproliferation, and the like.

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US04/13455

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : A61K 31/55, 31/00; C12N 13/00  
US CL : 435/173.1, 173.4, 212; 514/221, 456, 457

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 435/173.1, 173.4, 212; 514/221, 456, 457

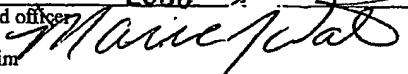
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO00/66106 A2 (THE REGENTS OF THE UNIVERSITY OF MICHIGAN) 09 November 2000(09.11.00), see full text	1-12, 15-19
—		_____
A		13-14 and 20-28
X	US6524832 B1 (KUFE et al) 25.February 2003(25.02.2003), see full text.	13-14
—		_____
A		1-12, 15-28

<input type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input type="checkbox"/>	See patent family annex.
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"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search <u>28 November 2005 (28.11.2005)</u>	Date of mailing of the international search report <u>06 JAN 2006</u>
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer  Vickie Kim Telephone No. 571-272-7600

**INTERNATIONAL SEARCH REPORT**

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Continuation of B. FIELDS SEARCHED Item 3:  
CAS ONLINE, REGISTRY, CAPLUS< USPATFU, WEST  
structure searched and term searched:cell death, apoptosis, benzodiazepine, F1F0-ATPase inhibitor, mitochondria, etc